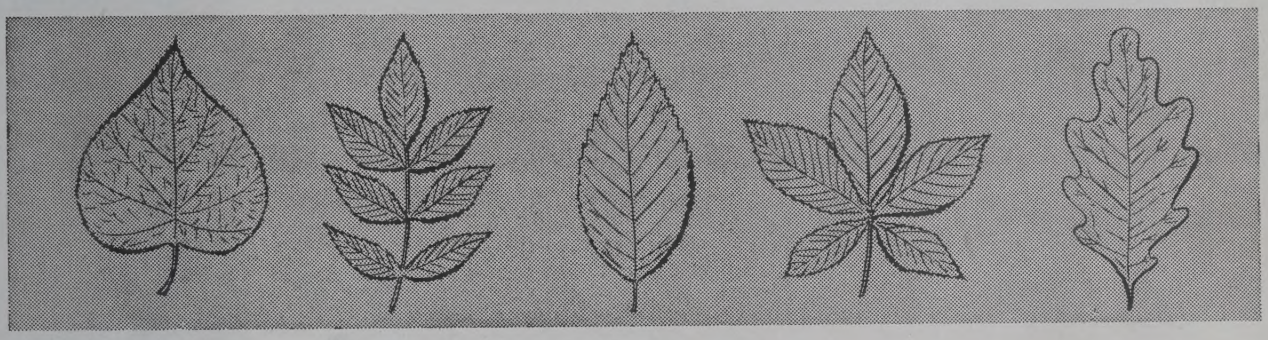
INTERCEPTED PLANT PESTS 1966 - 1967



PLANT QUARANTINE

issued by
PLANT PROTECTION DIVISION
PRODUCTION & MARKETING
BRANCH
CANADA DEPARTMENT
OF AGRICULTURE

COMMONWEALTH MYCOLOGICAL INSTITUTE
-6AUG1968

CONTENTS

	Page
Introduction	1
Notes on pests intercepted	2
Pest-host lists	
Insects, mites and Mollusca	4
Fungi, bacteria, etc.....	11
Nematodes	12
Host-pest list	18
Country of origin-pest list	22

Digitized by the Internet Archive
in 2025

https://archive.org/details/intercepted-plant-pests_1966-1967

CANADA DEPARTMENT OF AGRICULTURE

Production and Marketing Branch — Plant Protection Division

LIST OF INTERCEPTED PLANT PESTS

April 1st, 1966 - March 31st, 1967

INTRODUCTION

This report summarizes the import interception records of the Plant Protection Division for the period April 1st, 1966, to March 31st, 1967, and includes plant pests found on plants, plant products, baggage, cargo, mail or carriers entering Canada. Pest records concerning pre-shipment inspection of flowering bulbs in the Netherlands, the Canadian Nursery Survey, Canadian Export Certification, and various domestic surveys may be found in other reports covering these activities. The following lists include only those pests which are considered to be of plant quarantine interest and a few which may be of interest because they are new to the country of origin or to the host plant or are of limited distribution in Canada.

In order to prepare a report of this type, Canadian distribution records for the various plant pests must be available and the taxonomy of the various groups must be relatively stable. Where there is insufficient information in regard to these requisites, the pests concerned are arbitrarily included in these lists.

In this report pests are recorded in three groups: insects, etc.; fungi, bacteria, etc.; and nematodes. Imports are divided into two groups: "propagation" and "consumption", according to their obvious or intended use. The term "non-entry" may appear under either of these two groups. This refers to the interception of a pest in the space of a carrier (ship, airplane, etc.) or on some product, plant, etc. within the carrier not intended to be moved into this country. In all cases, however, the carrier was present on Canadian soil or in Canadian waters at the time of inspection. The heading "Host (or carrier)" is used in this report because many of the plants associated with a specific pest may not necessarily be host plants, and soil or other materials not associated with plants at the time of interception may also carry pests. The term "Soil" is used only when no recognizable plant or plant material could be associated with the soil in which a pest was found.

Both the "Host" and "Origin" lists refer only to the name of the pest organism. The most complete information is available in the "Pest" list. A large number of intercepted insects, mites, mollusca, fungi, bacteria and nematodes were not included in these lists, but information on these as well as more detailed information on those included here is on file and may be obtained by contacting The Director, Plant Protection Division, Ottawa.

With few exceptions, determinations of insects, nematodes and fungi were made or were confirmed by specialists in the Research Branch, Canada Agriculture. Mollusca were identified at the Canadian National Museum. In certain ports, inspectors are qualified to make identifications of specific pests because of frequent interceptions of the pest from the same state or country. However, even such identifications are checked by specialists from time to time. The scientific names in these lists are those provided by each specialist at the time the determinations were made. Many pests were incompletely determined, but those which may be of quarantine significance are included in the lists.

Notes on Pests Intercepted

There were 1,071 pest interceptions made during the 1966-67 fiscal year representing a slight reduction from the total of 1,167 for the previous year. The total of insect and disease interceptions actually increased but the large drop in the number of nematode determinations accounts for the reduced pest total. The reduced nematode total is due to the "freedom from soil" regulations which necessitated fewer examinations for cyst-forming nematodes on commercial shipments of plants from Europe for the complete fiscal year covered by this report.

The following table compares the total interceptions for each of the three pest groups with the related totals which are of quarantine or other significance.

Pest Group	No. of Interceptions	
	Total	Of P.Q. significance
Nematodes	418	320
Fungi, Bacteria, etc.	210	17
Insects, mites, etc.	443	165
Grand total	1,071	502

Of some interest in this report are a number of insects found on ships engaged as grain carriers to the Orient. Although the primary purpose of such examinations is to ensure that the holds are free of pests which might infest Canadian export grain the examinations show that foreign insects, some of which are strong fliers listed in this report, could gain entry to Canada by this means. Among these insects were several dried fruit beetles: Carpophilus hemipterus, C. humeralis, C. marginellus and C. obsoletus; the flat grain beetles Cryptolestes pusillus and C. turcicus; a cricket, Gryllotalpa sp. from China; a Curculionid, Hyperodes sp. from China; Pentodon sp., an important pest genus in Scarabaeidae, from China; the Mexican grain beetle, Pharaxonotha kirschi and several interceptions of the khapra beetle, Trogoderma granarium. Other insect determinations of interest were: Andricus testaceipes (or near), a midge which produces a spindle gall on Quercus, from Belgium; the potato tuberworm, Gnorimoschema operculella several times in potatoes from U.S.A.; the Argentine ant, Iridomyrmex humilis was found in large numbers in a shipment of plant cuttings from New Zealand (first record for that country) and a scolytid, Pityophthorus pityographus in wood crating with bark from Belgium (first species interception record).

Among the disease-producing organisms several bacteria were intercepted for the first time: Xanthomonas sp. prob. dieffenbachiae causing complete loss of a shipment of Dieffenbachia amoena from Fla.; Erwinia chrysanthemi on chrysanthemums from Fla. and probably a form of this bacterium causing serious loss in Philodendron selloum from New Jersey, U.S.A. Stemphylium floridanum was reported for the first time in Canada on chrysanthemums which had probably been imported from Fla. However, the fungus affected only the lower leaves and did not produce the symptoms which have given the disease its name in Fla. - Stemphylium ray speck.

Some plant parasitic nematodes of interest were: Aphelenchoides ritzemabosi, found in chrysanthemums from England being held under post-entry quarantine; Belonolaimus sp., a sting nematode, first interception record, on roses from Texas; Nothotylenchus sp. on Acer from the Netherlands, a first interception record; Rotylenchus pumilus, a spiral nematode, on Mentha in baggage from Germany, first interception record; and an increasing number of determinations of Xiphinema americanum, the American dagger nematode (often associated with Hoplolaimus galeatus) mostly in soil balls on trees for park plantings and particularly for "Expo 67" site plantings. Heterodera rostochiensis was not found in any commercial shipments but was found 9 times in mail or traveller's baggage containing prohibited plant material.

A. E. Straby
Central Identification Laboratory
Plant Protection Division
Ottawa

March 29, 1968.

PEST (insect, etc.)	HOST (or carrier)	COUNTRY OF ORIGIN	NO. OF INTERCEPTIONS IN Propagation	NO. OF INTERCEPTIONS IN Consumption	COLLECTED IN
Acedes (Tinea) fuscipunctella (Haw.) (Tineidae)	Debris in ship	Unknown		non-entry	B.C.
Acedes (Tinea) pallescentella (Staint.) (Tineidae) "large pale clothes moth"	Grain residue in ship	Unknown		non-entry	B.C.
		USA (state?)		2 non-entry	B.C.
	Soya bean residue in ship	USA (state?)		non-entry	B.C.
Acotyledon (Caloglyphus) krameri (Berlese) (Tyroglyphidae) "free-living mites"	Trapa (water chestnuts)	Hong Kong		1	Ont.
Acotyledon redikorzevi (Zachvatkin) (Tyroglyphidae) "free-living mites"	Trapa (water chestnuts)	Hong Kong		1	Ont.
Andricus testaceipes Hartig(?) (Cynipidae) " a midge causing stem spindle gall"	Quercus robur seedlings	Belgium	1		Ont.
Anomala sp. (Scarabaeidae)	Clothing	Formosa		1	Ont.
Aonidiella citrana (Coq.) (Coccidae) "yellow scale"	Citrus (oranges)	Japan		1	Man.
Aphis hederae Kalt. (Aphididae) "Ivy aphid"	Fragaria	England	1		Ont.
Arianta arbustorum (L.) (Helicidae) "a snail"	Berberis	Belgium	1		Sask.
Arion ater (L.) (Arionidae) "the black slug"	Rosa	Netherlands	1		Man.
	Potentilla	Netherlands	1		Man.
	Spiraea	Netherlands	1		Man.
Arion hortensis Ferussac (Arionidae) "garden slug"	Rosa	Ore.(USA)	1		B.C.
Aspidiotus (Hemiberlesia) lataniae (Sig.) (Diaspididae) "latania scale"	Palm	Fla.(USA)	1		Que.
Athous vittatus (Fab.) (Elateridae) "a wireworm"	Rosa	England	1		N.S.
Blatta orientalis (L.) (Blattidae) "oriental cockroach"	Clothing	India		1	Ont.
Brachyrhinus sp. (Curculionidae)	Rosa	Cal(USA)	1		Que.
	Vitis	S. Africa		1	Que.

PEST (insect, etc.)	HOST (or carrier)	COUNTRY OF ORIGIN	NO. OF INTERCEPTIONS IN Propagation	NO. OF INTERCEPTIONS IN Consumption	COLLECTED IN
Bruchus brachialis Fahr. (Bruchidae) "hairy-vetch bruchid"	Lens culinaris (lentil)	Italy			Que.
Bruchus rufimanus (Boh.) (Bruchidae) "broadbean weevil"	Phaseolus (lima bean) ?	Italy		1	Ont.
	Vicia faba (broadbean)	Portugal		1	B.C.
Cadra (Ephestia) figulilella (Gregson) (Phycitidae) "raisin moth"	Prunus (peach pits)	N.Y.(USA)	1		Ont.
Callosobruchus maculatus (F.) (Bruchidae) "cowpea weevil"	Vigna (Cowpea)	Br. Guiana		1	Que.
Carpophilus hemipterus (L.) (Nitidulidae) "a dried fruit beetle"	Ananas (pineapple)	Hawaii (USA)		1	Ont.
	Grain residue in ship	Unknown		2 non-entry	B.C.
Carpophilus humeralis (Fab.) (Nitidulidae) "a dried fruit beetle"	Ananas (pineapple)	Hawaii (USA)		1	Que.
	Copra residue in ship	Unknown		non-entry	B.C.
Carpophilus luridus Murr. (Nitidulidae) "a dried fruit beetle"	Zea (seed corn)	Mexico	1		Ont.
Carpophilus marginellus Mots. (Nitidulidae) "a dried fruit beetle"	Grain residue in ship	Texas (USA)?		non-entry	B.C.
Carpophilus sp. prob. mutilatus Ericks (Nitidulidae) "corn sap beetle"	Zea (seed corn)	Mexico	1		Ont.
Carpophilus obsoletus Ericks. (Nitidulidae) "a dried fruit beetle"	Grain residue on ship	Unknown		2 non-entry	B.C.
Cathartus quadricollis (Guer.) (Cucujidae) "square-necked grain beetle"	Zea (seed corn)	Mexico	1		Ont.
Ceroplastes cirripediformis Comst. (Coccidae) "barnacle scale"	Podocarpus	Fla.(USA)	1		Ont.
Ceroplastes floridensis Comst. (Coccidae) "Florida wax scale"	Podocarpus	Fla.(USA)	1		Ont.
Ceruraphis eriophori (Wlk.) (Aphididae)	Viburnum	Netherlands	1		Man.
Ceutorhynchus sp. (Curculionidae)	* Calluna (heather)	France	1		Que.

* Indicates plants and materials prohibited entry by regulation.

PEST (insect, etc.)	HOST (or carrier)	COUNTRY OF ORIGIN	NO. OF INTERCEPTIONS IN Propagation	Consumption	COLLECTED IN
Chrysomphalus ficus (Ashm.) (Diaspididae) "Florida red scale"					
	Dracaena	Fla.(USA)	1		Ont.
	Podocarpus	Fla.(USA)	2		Ont.
Conotelus stenoides (Murray) (Nitidulidae)					
	Zea (seed corn)	Mexico	1		Ont.
Cryptolestes pusillus (Schoen.) (Cucujidae) "a flat grain beetle"					
	Wood crates	Belgium		1	Ont.
	Grain residue in ship	Unknown		2 non-entry	B.C.
Cryptolestes turcicus (Grouvelle) (Cucujidae) "a flat grain beetle"					
	Grain residue in ship	Unknown		2 non-entry	B.C.
Cytilus sericeus (Forst.) (?) (Byrrhidae) "a pill beetle"					
	Sphagnum packing	Netherlands		3	Que. & Man.(2x)
Denticollis linearis (L.) (Elateridae) "a wireworm"					
	Rosa	Netherlands	1		Ont.
Dermestes frischii Kugelann. (Dermestidae) "a hide beetle"					
	Cocoa mats	India		1	Alta.
	Mahogany and rubber cargo	Unknown		1	N.S.
	Clothing, books, etc. (used)	India		1	Ont.
Diacrisia sp. (Arctiidae) "a woolly bear"					
	Potentilla	Netherlands	1		Man.
Dinoderus japonicus Lesne (Bostrichidae) "a powder-post beetle"					
	Bamboo canes	Unknown		1	B.C.
Dolichoderus sp. (Formicidae)					
	Packing (with orchids)	Australia		1	B.C.
Epinotia subviridis Heinr. (Olethreutidae)					
	Thuja (cones on plants)	Wash.(USA)	1		B.C.
Euceraphis sp. prob. punctipennis Zett. (Aphididae)					
	Betula	Netherlands	1		Ont.
Frankliniella sp. (Thripidae) "a flower thrips"					
	Asparagus	Cal.(USA)		1	Ont.
Forficula auricularia L. (Forficulidae) "European earwig"					
	Mahogany logs	Nicaragua		1	B.C.
Gnorimoschema operculella (Zell.) (Gelechiidae) "potato tuberworm"					
	Solanum tuberosum (potatoes)	USA(Cal.&/or N.C.)		2	Ont.
		USA(State?)		3	Que.

PEST (insect, etc.)	HOST (or carrier)	COUNTRY OF ORIGIN	NO. OF INTERCEPTIONS IN Propagation	NO. OF INTERCEPTIONS IN Consumption	COLLECTED IN
Gracilaria azaleella Brants (Gracilariidae) "azalea leaf miner"	Rhododendron	Cal.(USA)	1		B.C.
		Ore.(USA)	4		B.C.
		N.Y.(USA)	1		Man.
		Wash.(USA)	1		B.C.
Gryllotalpa sp. (Gryllidae) "a cricket"	Ship (space)	China		non-entry	B.C.
Helix aspersa Muller (Helicidae) "brown garden snail"	Ornamentals (various)	Cal.(USA)	2		B.C.
Hyperodes sp. (Curculionidae)	Ship (space)	China		non-entry	B.C.
Hypoaspis (Stratiolaelaps) miles (Berlese) (laelaptidae) "free living mites"	Trapa (water chestnut)	Hong Kong		1	Ont.
Iridomyrmex humilis (Mayr.) (Formicidae) "Argentine ant"	Plant cuttings	New Zealand	1		B.C.
Lathridius protensicollis Mann. "a fungus beetle"	Ship (space)	W. Indies		non-entry	B.C.
Lepidosaphes beckii (Newm.) (Diaspididae) "purple scale"	Citrus (oranges)	Japan		1	Man.
Limax marginatus (Muller) (Limacidae) "a slug"	* Dianthus	Italy	1		Que.
Limonius sp. prob. pilosus (Leske) (Elateridae) "a wireworm"	* House plants (in soil)	Hungary	1		Alta.
Litargus sp. (Mycetophagidae) "a hairy fungus beetle"	* Pinus	Azores	1		Ont.
	Grain residue in ship	Unknown		non-entry	B.C.
Lyctus sp. (Lyctidae) "a powder post beetle"	Bamboo	Japan		1	Ont.
	Mahogany (trim for houses)	Japan		1	Ont.
	Wood sculpture	Haiti		1	Ont.
Megastigmus spermotrophus Wachtl. (Torymidae) "douglas fir seed chalcid"	Pseudotsuga taxifolia (seed)	N.Y.(USA)	1		B.C.
Metriona sp. (Chrysomelidae) "a tortoise beetle"	Foliage plants	Brazil	1		Que.

* Indicates plants and materials prohibited entry by regulation.

PEST (insect, etc.)	HOST (or carrier)	COUNTRY OF ORIGIN	NO. OF INTERCEPTIONS IN Propagation	NO. OF INTERCEPTIONS IN Consumption	COLLECTED IN
Micrographe arga Reit. (Lathridiidae) "a minute brown scavenger beetle"	Grain residue on ship	Unknown		non-entry	B.C.
Micrographe sp. (Lathridiidae) "minute brown scavenger beetle"	Grain and soya bean residue in ship	China		non-entry	B.C.
	Grain residue in ship	Unknown		non-entry	B.C.
Monarthropalpus buxi (Lab.) (Cecidomyiidae) "box leaf miner"	Buxus (cut foliage)	Va.(USA)	1		Ont.
Myrmica laevinodis Nyl. (Formicidae) "a red ant"	Sphagnum packing on Rosa	Netherlands	1		Man.
	Sphagnum packing on Berberis	Belgium	1		Sask.
Myrmica ruginodis Nyl. (Formicidae) " a red ant "	Sphagnum packing on plants	Netherlands	1		Man.
Myrmica sp. (Formicidae) "a red ant"	Prunus (with soil)	Hong Kong	1		Sask.
Neodryocuetes sp. (Scolytidae) "a shot hole borer"	Cajanus indicus (pigeon pea)	Barbados		1	Man.
Nephrotoma sp. (Tipulidae) "a cranefly"	* House plants with soil	Hungary	1		Alta
Noctuidae "a cutworm"	* Fragaria (with soil)	Poland	1		Que.
	Sphagnum packing on plants	Netherlands	1		B.C.
Oecophoridae "leaf tiers and webbers"	Passenger's baggage	Hong Kong		1	Ont.
Olethreutidae "leaf rollers and tiers"	Citrus (organes)	S. Africa		1	B.C.
Paratrechina longicornis (Lat.) (Formicidae) "crazy ant"	Dioscorea (Yams)	Hong Kong		1	B.C.
Parlatoria proteus (Curtis) (Diaspididae) "proteus scale"	Citrus reticulata (Tangerine plants)	Fla.(USA)	1		Ont.
Pentodon sp. (Scarabaeidae)	Ship (space)	China		non-entry	B.C.
Periplaneta fulginosa (Serville) (Blattidae) "a cockroach"	Mahogany logs	Nicaragua		1	B.C.

* Indicates plants and materials prohibited entry by regulation.

PEST (insect, etc.)	HOST (or carrier)	COUNTRY OF ORIGIN	NO. OF INTERCEPTIONS IN Propagation	NO. OF INTERCEPTIONS IN Consumption	COLLECTED IN
Pharaxonotha kirschi Reitt. (Cryptophagidae) "Mexican grain beetle"	Corn residue in ship	Mexico		non-entry	B.C.
Pheidole sp. (Formicidae) "a big headed ant"	Ananas (pineapple)	Hawaii(USA)		1	Que.
	Cocos (coconut plant)	Hawaii(USA)	1		B.C.
Pityophthorus pityographus Ratz. (Scolytidae)	Wood crating (with bark)	Belgium		1	Ont.
Planococcus citri (Risso) (Pseudoccidae) "citrus mealybug"	Pyrus (Pear fruit)	S. Africa		1	B.C.
Platynota sp. prob. stultana Wlshm. (Tortricidae) "an orange worm"	Capsicum (green pepper fruit)	Mexico		1	B.C.
Platyptilia sp. poss. pica (Walsm.) (Pterophoridae) "a plume moth"	Pelargonium (cuttings)	Cal.(USA)	6		Que., Ont., Man., B.C. (3x)
Pseudococcus sp. (Pseudococcidae) "a mealybug"	Schefflera	Fla.(USA)	1		Man.
	Ficus (rubber plant)	Fla.(USA)	2		B.C.
Psylla pyricola Foerster (Psyllidae) "pear psylla"	Pyrus (pear fruit)	Hong Kong		1	B.C.
Pyralidae near Crambiinae	Sphagnum packing on plants	Belgium	1		Que.
Pyroderces rileyi Wlsm. (Cosmopterygidae) "pink cornworm"	Zea (corn seed)	Mexico	1		Ont.
Rhyacionia buoliana (Schiff.) (Olethreutidae) "European pine shoot moth"	Pinus mughus	Netherlands	1		Alta.
Saissetia oleae (Bern.) (Coccidae) "black scale"	Citrus (orange plants)	Fla.(USA)	1		Man.
Schistocera vaga Scudder (Acrididae) "a grasshopper"	Kentia (palm plants)	Cal.(USA)	1		B.C.
Scolytus multistriatus (Marsh.) (Scolytidae) "smaller European elm bark beetle"	* Ulmus (logs with bark)	Penn.(USA)		1	Que.
Scolytidae "bark beetles"	Pinus (logs)	Chile		1	B.C.
Sphecodina abbotti Swainson (?) (Sphingidae)	Vitis (fruit)	Cal.(USA)		1	B.C.

* Indicates plants and materials prohibited entry by regulation.

PEST (insect, etc.)	HOST (or carrier)	COUNTRY OF ORIGIN	NO. OF INTERCEPTIONS IN Propagation	NO. OF INTERCEPTIONS IN Consumption	COLLECTED IN
Stephanoderes sp. (Scolytidae)					
	Cajanus indicus (pigeon pea)	Barbados		1	Man.
Supella supellectilium (Serville) (Blattidae) "brown banded cockroach"					
	Philodendron	Fla.(USA)	1		Alta.
Systole albipennis Wlk. (?) (Eurytomidae) "a seed chalcid"					
	Pimpinella anisum (anise seed)	Portugal		1	Que.
Systole foeniculi Ott.(?) (Eurytomidae) "a seed chalcid"					
	Anethum graveolens (Dill seed)	Portugal		1	Que.
Taeniothrips sp. (Thripidae)					
	Floral necklace	Hawaii(USA)		1	Que.
Thyridopteryx ephemeraeformis (Haw.) (Psychidae) "a bagworm"					
	Juniperus	Tenn.(USA)	6		Ont.
	Thuja	Tenn.(USA)	9		Ont.
		Miss.(USA)	1		Ont.
Tipula sp. (Tipulidae) "crane flies"					
	Sphagnum packing on plants	Germany	1		B.C.
Triphosa dubitata L. (Geometridae)					
	Malus	Netherlands	1		B.C.
Trogoderma granarium Everts. (Dermestidae) "khapra beetle"					
	Grain residue in ship	Unknown		3 non-entry	Que.
Trogoderma sp. prob. granarium (Dermestidae)					
	Copra (in bags)	Ceylon		1	Que.
Trogoxylon sp. (Lyctidae) "a powder post beetle"					
	Wood crates	Pakistan		1	Que.
Veronicella sp. (Veronicellidae) "a slug"					
	Ficus	N.Y.(USA)	1		Que.
Xylena vetusta Hbn.(?) (Noctuidae) "red sword grass moth"					
	Sphagnum packing on plants	Netherlands	1		Ont.

PEST (fungus, etc.)	HOST (or carrier)	COUNTRY OF ORIGIN	NO. OF INTERCEPTIONS IN Propagation	NO. OF INTERCEPTIONS IN Consumption	COLLECTED IN
Cumminsiella mirabilissima (Pk.) Nannf. (Uredinales) "Mahonia rust"	Mahonia aquifolium	Ore.(USA)	2		Alta.
Cytospora ambiens Sacc. (Sphaeropsidales) "canker and dieback"	Malus (scions)	N.Y.(USA)	1		Ont.
Erwinia chrysanthemi Burkh. etal. (Eubacteriales) "bacterial blight"	Chrysanthemum morifolium (cuttings)	Fla.(USA)	1		Ont.
Erwinia chrysanthemi Burkh. etal. (or near) (Eubacteriales) "bacterial leaf spot and rot"	Philodendron selloum	N.J.(USA)	1		Ont.
Lily mosaic virus	Lilium (Easter lilies)	Ore.(USA)	1		Ont.
Pestalotia sp. prob. aeruginea (Steyart) (Melanconiales) "leaf spot"	Eucalyptus	Cal.(USA)	1		Que.
Pestalotia versicolor Speg. (Melanconiales) "leaf spot"	Coccoloba uvifera (sea-grape)	Fla.(USA)	1		Que.
Phomopsis conglanensis (Sacc.) Trav. (Sphaeropsidales) "branch canker"	Aesculus hippocastanum	Netherlands	1		Ont.
Phomopsis perniciosa Grove (Sphaeropsidales) "dieback and twig canker"	Malus (understock)	Netherlands	1		Ont.
Phragmidium mucronatum (Pers.) Schlecht.II & III (Uredinales) "rust"	* Rosa	England	1		B.C.
Puccinia menthae Pers. II (Uredinales) "rust"	Mentha (mint plants)	Ore.(USA)	1		B.C.
Stemphylium floridanum Hannon & Webber (Moniliales) "Stemphylium ray speck	Chrysanthemum (cuttings)	Fla.(USA) prob.	1		Que.
Vermicularia liliacearum West. (Melanconiales) "bulb scale spot"	Lilium	Ore(USA)	1		B.C.
Xanthomonas pelargonii (Brown) Starr & Burkh. (Pseudomonadales) "bacterial leaf & stem rot"	Pelargonium (rooted cutting)	Mich.(USA)	1		Ont.
		Wash.(USA)	1		B.C.
Xanthomonas sp. prob. dieffenbachiae (McCull. & Pirone) Dowson, (Pseudomonadales) "bacterial leaf spot & rot	Dieffenbachia amoena	Fla.(USA)	1		B.C.

* Indicates plants and materials prohibited entry by regulation.

PEST (Nematode)	HOST (or carrier)	COUNTRY OF ORIGIN	NO. OF INTERCEPTIONS IN Propa-gation	Consump-tion	COLLECTED IN
Aphelenchoides ritzemabosi (Schwartz 1911) Steiner & Buhrer 1932 (Aphelenchoididae "chrysanthemum foliar" nematode)					
	Chrysanthemum (cuttings)	England	2		Ont.
Aphelenchoides sp. (Aphelenchoididae)					
	*Begonia	Portugal	1		Ont.
	*Cactus	Hungary	1		Alta.
	*Calluna (heather)	Europe	2		Alta., B.C.
	Chrysanthemum (cuttings)	England	1		Ont.
	*Colocasia esculenta (Taro roots)	Hong Kong		1	B.C.
	Fraxinus	N.J.(USA)	1		Ont.
	*Hedera	Germany	1		Ont.
	Lilium	Netherlands	1		Que.
	Trollius	Netherlands	1		Alta.
	Zingiber (Ginger roots)	Hong Kong		1	B.C.
Belonolaimus sp. (Hoplolaiminae) "a sting nematode"					
	Rosa	Texas(USA)	1		Ont.
Criconemoides lobatum Raski 1952 (Criconematidae) "a ring nematode"					
	Chrysanthemum (rooted cuttings)	England	1		Ont.
Criconemoides sp. (Criconematidae) "ring nematodes"					
	Fraxinus	N.J.(USA)	1		Ont.
	Malus (understock)	England	1		Ont.
	* Mentha	Germany	1		Alta.
Ditylenchus dipsaci (Kühn 1857) (Tylenchidae) "bulb & stem nematode"					
	Allium (Dutch sets)	Netherlands	1		Ont.
	Allium (shallots)	France		1	Que.
	Iris (bulbous)	Wash.(USA)	1		B.C.
Helicotylenchus erythrinae (Zimmerman 1904) Golden 1956 (Tylenchidae) "Zimmerman spiral nematode"					
	* Calluna (heather)	Europe	1		B.C.
Helicotylenchus pseudorobustus (Steiner 1914) Golden 1956 (Tylenchidae) "a spiral nematode"					
	Gleditsia	Ill.(USA)	1		Ont.
Helicotylenchus sp. prob. vulgaris Yuen 1964 (Tylenchidae) "a spiral nematode"					
	Houseplants	Germany	1		Alta.
Heterodera avenae Woll. 1924(Filip. 1934) or near. (Heteroderidae) "oat-cyst nematode"					
	Automobile * (with soil)	Italy		1	Que.
	Plants (with soil)	*Belgium	2		Ont. & B.C.
		*England	1		Que.
		*Europe	1		Que.
		*Hungary	1		Que.
		*Italy	2		Que. & Ont.
		*Netherlands	3		Que(2x), Ont.
		N.J.(USA)	1		Ont.
	* Soil	Germany		1	Ont.

* Indicates plants and materials prohibited entry by regulation.

PEST (Nematode)	HOST (or carrier)	COUNTRY OF ORIGIN	NO. OF INTERCEPTIONS IN Propagation	Consumption	COLLECTED IN
Heterodera cacti Filip. & S. Stekhoven 1941, or near. (Heteroderidae) "cactus cyst nematode"					
	* Cactus	Italy	1		Ont.
	* Chrysanthemum	Italy	1		Que.
	* Prunus	Tenn(USA)	1		Ont.
Heterodera sp. prob. cruciferae Franklin 1945 (Heteroderidae) "cabbage-cyst nematode"					
	* House plants	Portugal	1		Que.
	* Hydrangea	Italy	1		Que.
Heterodera sp. prob. goettingiana Liebscher 1892 (Heteroderidae) "pea-cyst nematode"					
	* House plants	Europe	1		Que.
Heterodera humuli Filip. 1934, or near (Heteroderidae) "hop-cyst nematode"					
	* Plants (with soil)	England	1		Que.
		Europe	2		Que.
		France	1		Que.
		Germany	1		Ont.
		Hungary	1		Que.
		Italy	9		Que.(5x) Ont(4x)
		Portugal	1		Que.
		Spain	1		Que.
Heterodera punctata Thorne 1928 (Heteroderidae) "grass-cyst nematode"					
	Automobile * (with soil)	Europe		3	Que.
	* Plants (with soil)	England	2		Que.,Ont.
		Netherlands	2		Que.
		Poland	1		Ont.
Heterodera rostochiensis Woll. 1923 (Heteroderidae) "potato-cyst nematode"					
	* House plants	England	2		Ont.
		Italy	1		Que.
		Scotland	1		Ont.
	* Rosa	England	1		Que.
	* Shamrock	Ireland	2		B.C.
	* Solanum tuberosum (potato)	Germany	1		Ont.
	* Zebrina (tradescantia)	England	1		Que.
Heterodera sp. prob. schachtii Schmidt 1871 (Heteroderidae) "sugar-beet nematode"					
	* Protea	S. Africa	1		Que.
Heterodera sp. (not identifiable to species)					
There were 35 determinations on a wide variety of plants and soil originating in 11 countries					Nfld. Que.(16x) Ont.(16x) B.C.(2x
Heterodera sp. poss. tabacum Lownsbery & Lownsberry 1954 (Heteroderidae) "tobacco-cyst nematode"					
	* House plant	Italy	1		Que.
Heterodera trifolii Goffart 1932 (Oostenbrink 1949) widespread in Canada (Heteroderidae)"clover-cyst nematode"					
There were 36 determinations on a wide variety of plants and soil originating in 9 countries.					Que.(15x) Ont.(20x) B.C.

* Indicates plants and materials prohibited entry by regulation.

PEST (Nematode)	HOST (or carrier)	COUNTRY OF ORIGIN	NO. OF INTERCEPTIONS IN Propagation	Consumption	COLLECTED IN
Hoplolaimus galeatus (Cobb 1913) Sher 1961 (Tylenchidae) "a lance nematode"					
	Acer	N.J.(USA)	1		Ont.
	Fraxinus	N.J.(USA)	1		Ont.
	Malus	N.J.(USA)	3		Ont.
		Ill.(USA)	1		Ont.
	Prunus	N.J.(USA)	2		Ont.
	Tilia	N.J.(USA)	2		Ont.
		Netherlands	1		Ont.
Hoplolaimus sp. (Tylenchidae) "lance nematodes"					
	* Hedera	Germany	1		Ont.
	* Begonia	Portugal	1		Ont.
Meloidogyne arenaria (Neil 1889) Chitwood 1949 (Heteroderidae) "peanut root-knot nematode"					
	Buddleia	Tenn.(USA)	1		Ont.
	Lonicera	Tenn.(USA)	1		Ont.
	Rosa	Holland	1		Ont.
	Viburnum	Tenn.(USA)	1		Ont.
Meloidogyne hapla (Neil 1889) Chitwood 1949 or poss. Mis sp. (Heteroderidae) "northern root-knot nematode"					
	Buddleia	Tenn.(USA)	1		Ont.
	Clematis	Netherlands	1		B.C.
	Forsythia	Tenn.(USA)	1		Ont.
	Fragaria	Del.(USA)	1		Man.
	Ligustrum	Ala.(USA)	1		Ont.
		Mo.(USA)	1		Ont.
		Tenn.(USA)	5		Ont.
	Lonicera	Tenn.(USA)	2		Ont.
	Lycopersicon (seedlings)	Ga.(USA)	1		Ont.
		Va.(USA)	2		Ont.
	Ribes	Ore(USA)	1		B.C.
	Rosa	Cal.(USA)	1		Ont.
		France	1		Ont.
		Netherlands	3		Que.(2x) Ont.
		Tenn.(USA)	1		Ont.
		Tex.(USA)	4		Ont.(3x) B.C.
	Salix	Tenn.(USA)	1		Ont.
	Spiraea	N.Y. (USA)	1		Ont.
	Viburnum	N.Y. (USA)	1		Ont.
		Tenn.(USA)	1		Ont.
	Weigela	Ala.(USA)	1		Ont.
		Tenn.(USA)	1		Ont.
Meloidogyne incognita (Kofoid & White 1919) Chitwood 1949 (Heteroderidae) "southern root-knot nematode"					
	Acer	Netherlands	1		B.C.
	Caladium	Fla.(USA)	1		Ont.
		Wash.(USA)	1		B.C.
	Clematis	Netherlands	1		N.B.
	Kolkwitzia	Ala.(USA)	1		Ont.
	Lonicera	Tenn.(USA)	3		Ont.
	Lycopersicon (seedlings)	Ga.(USA)	14		Ont.
	Tamarix	Tenn.(USA)	1		Ont.
	Tilia	Netherlands	1		Ont.
	Viburnum	Tenn.(USA)	1		Ont.
	Weigela	Tenn.(USA)	1		Ont.

* Indicates plants and materials prohibited entry by regulation.

PEST (Nematode)	HOST (or carrier)	COUNTRY OF ORIGIN	NO. OF INTERCEPTIONS IN Propagation	Consumption	COLLECTED IN
Meloidogyne incognita acrita Chitwood 1949 (?) (Heteroderidae) "cotton root-knot nematode"	*Ligustrum*	Tenn.(USA)	1		Ont.
Meloidogyne javanica (Treub. 1885) Chitwood 1949 (Heteroderidae) "Javanese root-knot nematode"	*Lycopersicon* (seedlings)	Ga.(USA)	19		Ont.
Meloidogyne sp. (Heteroderidae) "root-knot nematode"	*Berberis*	Mo.(USA)	1		Ont.
	Caladium	Wash.(USA)	1		B.C.
		Fla.(USA)	1		Ont.
	Cotoneaster	Netherlands	1		Ont.
	Deutzia	Ala.(USA)	1		Ont.
	Forsythia	Ala.(USA)	1		Ont.
		Tenn.(USA)	2		Ont.
	Fragaria	Del.(USA)	1		Man.
	Hydrangea	Ala.(USA)	1		Ont.
	Ligustrum	Tenn.(USA)	1		Ont.
	Lonicera	Tenn.(USA)	1		Ont.
	Lycopersicon (seedlings)	Ga.(USA)	5		Ont.
		Va.(USA)	1		Que.
	Lythrum	Mich.(USA)	1		Ont.
	Rosa	Belgium	2		Que.
		Netherlands	13		Man(3x) Que.(8x) Ont.(3x)
		Tenn.(USA)	1		Ont.
		Tex.(USA)	3		Ont. B.C.(2x)
	Spiraea	N.Y.(USA)	1		Ont.
		Tenn.(USA)	1		Ont.
	Tilia	Netherlands	1		Ont.
	Viburnum	Iowa(USA)	1		Ont.
		Tenn.(USA)	2		Ont.
Nothotylenchus sp. Thorne 1941 (Neotylenchidae)	*Acer*	Netherlands	1		Ont.
Paratylenchus projectus Jenkins 1956 (Criconematidae) "pin nematode"	*Acer*	N.J.(USA)	1		Ont.
	Fraxinus	N.J.(USA)	1		Ont.
Paratylenchus sp. (Criconematidae) "pin nematodes"	*Gleditsia*	Ill.(USA)	1		Ont.
Pratylenchoides sp. prob. *crenicauda* Winslow 1958 (Tylenchidae)	* *Apium* (celery)	Germany	1		Alta.
Pratylenchus sp. prob. *brachyurus* (Godfrey 1929) Goodey 1951 (Tylenchidae) "a lesion neamtode"	*Rosa*	Tex.(USA)	1		Ont.
Pratylenchus coffeae (Zimm. 1898) Filip. & S. Stek. 1941 (Tylenchidae) "a lesion nematode"	* Soil	Germany		1	Ont.

* Indicates plants and materials prohibited entry by regulation.

PEST (Nematode)	HOST (or carrier)	COUNTRY OF ORIGIN	NO. OF INTERCEPTIONS IN Propagation	NO. OF INTERCEPTIONS IN Consumption	COLLECTED IN
Pratylenchus crenatus Loof 1960 (Tylenchidae) "a lesion nematode"					
	Acer	Belgium	1		Ont.
	Cactus	Hungary	1		Alta.
	Chrysanthemum	Japan	1		B.C.
	Malus	N.J.(USA)	1		Ont.
	Prunus	N.J.(USA)	1		Ont.
	Tilia	Netherlands	1		Ont.
Pratylenchus neglectus (Rensch 1924) Filip. & S. Stek. 1941 (Tylenchidae) "a lesion nematode"					
	Malus	Minn.(USA)	1		Ont.
Pratylenchus penetrans (Cobb 1917) Filip. & S. Stek. 1941 (Tylenchidae) "a lesion nematode"					
	Acer	Belgium	1		Ont.
		Netherlands	2		Ont.
	Fragaria	Wash.(USA)	1		B.C.
	Ligustrum	Netherlands	1		Ont.
	Malus	England	2		Ont.
		Minn.(USA)	1		Ont.
		N.J.(USA)	1		Ont.
	* Mentha	Germany	1		Alta.
	Phlox	Netherlands	1		Ont.
	Prunus	N.J.(USA)	1		Ont.
	Tilia	Netherlands	1		Ont.
Rotylenchus follorobustus Sher 1965 (Tylenchidae) "a spiral nematode"					
	* Mentha	Germany	1		Alta.
Rotylenchus pumilus (Perry in Perry, Darling & Thorne 1959) Sher 1961 (Tylenchidae) "a spiral nematode"					
	* Mentha	Germany	1		Alta.
Rotylenchus sp. (Tylenchidae) "a spiral nematode"					
	* House plants	Hungary	1		Alta.
Scutellonema brachyurum (Steiner 1938) Andrassy 1958 (Tylenchidae) "a spiral nematode"					
	* House plants	Denmark	1		Alta.
Tylenchorhynchus brevidens Allen 1955 (Tylenchidae) "a stunt nematode"					
	* House plants	Ukraine(USSR)	1		Man.
Tylenchorhynchus dubius (Buetschli 1873) Filip. 1936 (Tylenchidae) "a stunt nematode"					
	* Apium (celery plant)	Germany	1		Alta.
Tylenchorhynchus macrurus (Goodey 1932) Filip. 1936 (Tylenchidae) "a stunt nematode"					
	* House plants	Germany	1		Alta.
	Malus	England	1		Ont.

* Indicates plants and materials prohibited entry by regulation.

PEST (Nematode)	HOST (or carrier)	COUNTRY OF ORIGIN	NO. OF INTERCEPTIONS IN Propa-gation	Consump-tion	COLLECTED IN
Tylenchorhynchus sp. (Tylenchidae) "stunt nematode"					
	Fraxinus	N.J.(USA)	1		Ont.
	* Hedera	Germany	1		Ont.
Xiphinema americanum Cobb 1913 (Longidoridae) "a dagger nematode"					
	Gleditsia	Ill.(USA)	2		Ont.
	* House plants	Denmark	1		Alta.
		Germany	1		Alta.
	Malus	England	1		Ont.
		Ill.(USA)	1		Ont.
		N.J.(USA)	1		Ont.
	Prunus	N.J.(USA)	1		Ont.
	Rosa	Tex.(USA)	1		Ont.
	Tilia	Netherlands	1		Ont.
		N.J.(USA)	1		Ont.
Xiphinema sp. (Longidoridae) "dagger nematodes"					
	Juniperus	Tenn.(USA)	1		Ont.
	Malus	N.J.(USA)	1		Ont.
	Prunus	N.J.(USA)	1		Ont.
	Rosa	Tex.(USA)	1		Ont.

Hosts (or carriers) of Intercepted Pests

ACER:
- Hoplolaimus galeatus (Nematode)
- Meloidogyne incognita "
- Nothotylenchus sp. "
- Paratylenchus projectus "
- Pratylenchus crenatus "
- Pratylenchus penetrans "

AESCULUS:
- Phomopsis conglanensis (Fungus)

ALLIUM (Dutch sets):
- Ditylenchus dipsaci (Nematode)

ALLIUM (shallots):
- Ditylenchus dipsaci "

ANANAS (pineapple):
- Carpophilus hemipterus (Insect)
- Carpophilus humeralis "
- Pheidole sp. "

ANETHUM graveolens (dill seed):
- Systole foeniculi "

APIUM (celery):
- Pratylenchoides sp. prob. crenicanda (Nematode)
- Tylenchorhynchus dubius "

ASPARAGUS:
- Frankliniella sp. (Insect)

AUTOMOBILE (with soil)
- Heterodera avenae (Nematode)
- Heterodera punctata "

BAMBOO:
- Dinoderus japonicus (Insect)
- Lyctus sp. "

BEGONIA:
- Aphelenchoides sp. (Nematode)
- Hoplolaimus sp. "

BERBERIS:
- Arianta arbustorum (snail)
- Meloidogyne sp. (Nematode)

BETULA:
- Euceraphis sp. prob. punctipennis (Insect)

BUDDLEIA:
- Meloidogyne arenaria (Nematode)
- Meloidogyne hapla "

BUXUS (cut foliage):
- Monarthropalpus buxi (Insect)

CACTUS:
- Aphelenchoides sp. (Nematode)
- Heterodera cacti (or near) "
- Pratylenchus crenatus "

CAJANUS INDICUS (pigeon pea)
- Neodryocuetes sp. (Insect)
- Stephanoderes sp. "

CALADIUM:
- Meloidogyne incognita (Nematode)
- Meloidogyne sp. "

CALLUNA (heather):
- Ceutorhynchus sp. (Insect)
- Aphelenchoides sp. (Nematode)
- Helicotylenchus erythrinae (Nematode)

CAPSICUM (green pepper fruit):
- Platynota sp. prob. stultana (Insect)

CHRYSANTHEMUM:
- Aphelenchoides ritzemabosi (Nematode)
- Aphelenchoides sp. "
- Criconemoides lobatum "
- Erwinia chrysanthemi (Bacterium)
- Heterodera cacti (Nematode)
- Pratylenchus crenatus "
- Stemphylium floridanum (Fungus)

CITRUS (oranges):
- Aonidiella citrina (Insect)
- Lepidosaphes beckii "
- Olethreutidae "

CITRUS (orange plants):
- Saissetia oleae (Insect)

CITRUS (tangerine plants)
- Parlatoria proteus "

CLEMATIS:
- Meloidogyne hapla (Nematode)
- Meloidogyne incognita "

CLOTHING (used, etc.):
- Anomala sp. (Insect)
- Blatta orientalis "
- Dermestes frischii "

COCCOLOBA UVIFERA (sea grape):
- Pestalotia versicolor (Fungus)

COCOA MATS:
- Dermestes frischii (Insect)

COCOS (coconut plant):
- Pheidole sp. "

COLOCASIA ESCULENTA (taro root):
- Aphelenchoides sp. (Nematode)

COPRA (residue in ship):
- Carpophilus humeralis (Insect)

COPRA (in bags):
- Trogoderma sp. prob. granarium (Insect)

Hosts (or carriers) of Intercepted Pests

CORN RESIDUE IN SHIP:
Pharaxonotha kirschi (Insect)

CONONEASTER:
Meloidogyne sp. (Nematode)

DEBRIS IN SHIP:
Acedes fuscipunctella (Insect)

DEUTZIA:
Meloidogyne sp. (Nematode)

DIANTHUS:
Limax marginatus (Slug)

DIEFFENBACHIA AMOENA:
Xanthomonas sp. prob. dieffenbachiae (Bacterium)

DIOSCOREA (yam)
Paratrechina longicornis (Insect)

DRACAENA:
Chrysomphalus ficus "

EUCALYPTUS:
Pestalotia sp. prob. aeruginea (Fungus)

FICUS (rubber plant):
Pseudococcus sp. (Insect)
Veronicella sp. (Slug)

FLORAL NECKLACE:
Taeniothrips sp. (Insect)

FOLIAGE PLANTS:
Metriona sp. "

FORSYTHIA:
Meloidogyne hapla (Nematode)
Meloidogyne sp. "

FRAGARIA:
Aphis hederae (Insect)
Meloidogyne hapla (Nematode)
Meloidogyne sp. "
Noctuidae (Insect)
Pratylenchus penetrans (Nematode)

FRAXINUS:
Aphelenchoides sp. (Nematode)
Criconemoides sp. "
Hoplolaimus galeatus "
Paratylenchus projectus "
Tylenchorhynchus sp. "

GLEDITSIA:
Helicotylenchus pseudorobustus (Nematode)
Paratylenchus sp. "
Xiphinema americanum "

GRAIN RESIDUE IN SHIP:
Acedes pallescentella (Insect)
Carpophylus hemipterus "
Carpophilus marginellus "
Carpophilus obsoletus (Insect)
Cryptolestes pusillus "
Cryptolestes turcicus "
Litargus sp. "
Micrographe arga "
Micrographe sp. "
Trogoderma granarium "

GRAIN AND SOYA BEAN RESIDUE IN SHIP:
Micrographe sp. (Insect)

HEDERA:
Aphelenchoides sp. (Nematode)
Hoplolaimus sp. "
Tylenchorhynchus sp. "

HOUSE PLANTS (with soil):
Helicotylenchus sp. prob. vulgaris (Nematode)
Heterodera sp. prob. cruciferae "
Heterodera sp. prob. goettingiana "
Heterodera rostochiensis "
Heterodera sp. poss. tabacum "
Limonius sp. prob. pilosus (Insect)
Nephrotoma sp. "
Rotylenchus sp. (Nematode)
Scutellonema brachyurum "
Tylenchorhynchus brevidens "
Tylenchorhynchus macrurus "
Xiphinema americanum "

HYDRANGEA:
Heterodera sp. prob. cruciferae "
Meloidogyne sp. "

IRIS (bulbous):
Ditylenchus dipsaci "

JUNIPERUS:
Thyridopteryx ephemeraeformis (Insect)
Xiphinema sp. (Nematode)

KENTIA (palm)
Schistocera vaga (Insect)

KOLKWITZIA:
Meloidogyne incognita (Nematode)

LENS CULINARIS (lentil):
Bruchus brachialis (Insect)

LIGUSTRUM:
Meloidogyne hapla (Nematode)
Meloidogyne incognita acrita "
Meloidogyne sp. "
Pratylenchus penetrans "

LILIUM (bulbs):
Aphelenchoides sp. (Nematode)
Vermicularia liliacearum (Fungus)

LILIUM (plants):
Lily mosaic virus

LONICERA:
Meloidogyne hapla (Nematode)
Meloidogyne incognita "
Meloidogyne sp. "

Hosts (or carriers) of Intercepted Pests

LYCOPERSICON (seedlings):
- Meloidogyne hapla (Nematode)
- Meloidogyne incognita "
- Meloidogyne javanica "
- Meloidogyne sp. "

MAHOGANY (logs):
- Forficula auricularia (Insect)
- Periplaneta fuliginosa "

MAHOGANY (and rubber cargo):
- Dermestes frischii "

MAHOGANY (trim for houses):
- Lyctus sp. "

MAHONIA AQUIFOLIUM:
- Cumminsiella mirabilissima (Fungus)

MALUS:
- Criconemoides sp. (Nematode)
- Hoplolaimus galeatus "
- Phomopsis perniciosa (Fungus)
- Pratylenchus crenatus (Nematode)
- Pratylenchus neglectus "
- Pratylenchus penetrans "
- Triphosa dubitata (Insect)
- Tylenchorhynchus macrurus (Nematode)
- Xiphinema americanum "
- Xiphinema sp. "

MALUS (scions):
- Cytospora ambiens (Fungus)

MENTHA:
- Criconemoides sp. (Nematode)
- Pratylenchus penetrans "
- Puccinia menthae (Fungus)
- Rotylenchus follorobustus (Nematode)
- Rotylenchus pumilus "

ORNAMENTALS (various):
- Helix aspersa (snail)

PACKING (with orchids):
- Dolichoderus sp. (Insect)

PALM:
- Aspidiotus lataniae "

PASSENGER'S BAGGAGE:
- Oecophoridae "

PELARGONIUM (cuttings):
- Platyptilia sp. poss. pica (Insect)
- Xanthomonas pelargonii (Bacterium)

PHASEOLUS (lima bean):
- Bruchus rufimanus (Insect)

PHILODENDRON:
- Supella supellectilium (Insect)

PHLOX:
- Pratylenchus penetrans (Nematode)

PIMPINELLA ANISUM (anise seed):
- Systole albipennis (?) (Insect)

PINUS:
- Litargus sp. (Insect)

PINUS MUGHUS:
- Rhyacionia buoliana (Insect)

PINUS (logs):
- Scolytidae "

PLANTS (with soil):
- Heterodera avenae (Nematode)
- Heterodera humuli "
- Heterodera punctata "

PLANTS (cuttings):
- Iridomyrmex humilis (Insect)

PODOCARPUS:
- Ceroplastes cirripediformis (Insect)
- Ceroplastes floridensis "
- Chrysomphalus ficus "

POTENTILLA:
- Arion ater (slug)
- Diacrisia sp. (Insect)

PROTEA:
- Heterodera sp. prob. schachtii (Nematode)

PRUNUS:
- Heterodera cacti (or near) "
- Hoplolaimus galeatus "
- Myrmica sp. (Insect)
- Pratylenchus crenatus "
- Pratylenchus penetrans "
- Xiphinema americanum "
- Xiphinema sp. "

PRUNUS (peach pits):
- Cadra figulilella (Insect)

PSEUDOTSUGA TAXIFOLIA:
- Megastigmus spermatrophus (Insect)

PYRUS (pear fruit):
- Planococcus citri "
- Psylla pyricola "

QUERCUS ROBUR:
- Andricus testaceipes (?) "

RHODODENDRON:
- Gracilaria azaleella "

RIBES:
- Meloidogyne hapla (Nematode)

Hosts (or carriers) of Intercepted Pests

ROSA:
- Arion ater (slug)
- Arion hortensis "
- Athous vittatus (Insect)
- Belonolaimus sp. (Nematode)
- Brachyrhinus sp. (Insect)
- Denticollis linearis "
- Heterodera rostochiensis (Nematode)
- Meloidogyne arenaria "
- Meloidogyne hapla "
- Meloidogyne sp. "
- Phragmidium mucronatum (Fungus)
- Pratylenchus sp. prob. brachyurus (Nematode)
- Xiphinema americanum (Nematode)
- Xiphinema sp. "

SALIX:
- Meloidogyne hapla "

SCHEFFLERA:
- Pseudococcus sp. (Insect)

SHAMROCK:
- Heterodera rostochiensis (Nematode)

SHIP (space):
- Gryllotalpa sp. (Insect)
- Hyperodes sp. "
- Lathridius protensicollis "
- Pentodon sp. "

SOIL:
- Heterodera avenae (Nematode)
- Pratylenchus coffeae "

SOLANUM TUBEROSUM (potatoes):
- Gnorimoschema operculella (Insect)
- Heterodera rostochiensis (Nematode)

SOYA BEAN RESIDUE IN SHIP:
- Acedes pallescentella (Insect)

SPHAGNUM PACKING, ETC.:
- Cytilus sericeus "
- Myrmica laevinodis "
- Myrmica ruginodis "
- Noctuidae "
- Pyralidae near Crambiinae "
- Tipula sp. "
- Xylena vetusta (?) "

SPIRAEA:
- Arion ater (slug)
- Meloidogyne hapla (Nematode)
- Meloidogyne sp. "

TAMARIX:
- Meloidogyne incognita "

THUJA:
- Thyridopteryx ephemeraeformis (Insect)

THUJA (in cones on plants):
- Epinotia subviridis (Insect)

TILIA:
- Hoplolaimus galeatus (Nematode)
- Meloidogyne incognita "
- Meloidogyne sp. "
- Pratylenchus crenatus "
- Pratylenchus penetrans "
- Xiphinema americanum "

TRAPA (water chestnuts):
- Acotyledon krameri (mite)
- Acotyledon redikorzevi "
- Hypoaspis miles "

TROLLIUS:
- Aphelenchoides sp. (Nematode)

ULMUS (logs with bark):
- Scolytus multistriatus (Insect)

VIBURNUM:
- Ceruraphis eriophori "
- Meloidogyne arenaria (Nematode)
- Meloidogyne hapla "
- Meloidogyne incognita "
- Meloidogyne sp. "

VICIA FABA (broad beans):
- Bruchus rufimanus (Insect)

VIGNA (cowpea):
- Callosobruchus maculatus (Insect)

VITIS (fruit):
- Brachyrhinus sp. "
- Sphecodina abbotti (?) "

WEIGELA:
- Meloidogyne hapla (Nematode)
- Meloidogyne incognita "

WOOD (crates):
- Cryptolestes pusillus (Insect)
- Trogoxylon sp. "

WOOD (crates with bark):
- Pityophthorus pityographus "

WOOD (sculpture):
- Lyctus sp. "

ZEA (seed corn):
- Carpophilus luridus "
- Carpophilus sp. prob. mutilatus (Insect)
- Cathartus quadricollis "
- Conotelus stenoides "
- Pyroderces rileyi "

ZEBRINA (tradescantia):
- Heterodera rostochiensis (Nematode)

ZINGIBER (ginger root):
- Aphelenchoides sp. "

Countries of Origin and Pests Intercepted

AUSTRALIA:
- Dolichoderus sp. (Insect)

AZORES:
- Litargus sp. "

BARBADOS:
- Neodryocuetes sp. "
- Stephanoderes sp. "

BELGIUM:
- Andricus testaceipes (?)"
- Arianta arbustorum (Slug)
- Cryptolestes pusillus (Insect)
- Heterodera avenae (2x) (Nematode)
- Meloidogyne sp. (2x)
- Myrmica laevinodis (Insect)
- Pityophthorus pityographus (Insect)
- Pratylenchus crenatus (Nematode)
- Pratylenchus penetrans "
- Pyralidae near Crambiinae (Insect)

BRAZIL:
- Metriona sp. "

BRITISH GUIANA:
- Callosobruchus maculatus "

CEYLON:
- Trogoderma sp. prob. granarium (Insect)

CHILE:
- Scolytidae "

CHINA:
- Gryllotalpa sp. "
- Hyperodes sp. "
- Licrogramme sp. "
- Pentodon sp. "

DENMARK:
- Scutellonema brachyurum (Nematode)
- Xiphinema americanum "

ENGLAND:
- Aphelenchoides ritzemabosi 2x (Nematode)
- Aphelenchoides sp. "
- Aphis hederae (Insect)
- Athous vittatus "
- Criconemoides lobatum "
- Criconemoides sp. "
- Heterodera avenae or near "
- Heterodera punctata 2x "
- Heterodera rostochiensis 4x "
- Phragmidium mucronatum (Fungus)
- Pratylenchus penetrans 2x "
- Pratylenchus sp. "
- Tylenchorhynchus macrurus "
- Xiphinema americanum "

EUROPE (country?):
- Aphelenchoides sp. 2x "
- Helicotylenchus erythrinae "
- Heterodera avenae "
- Heterodera sp. prob. goettingiana "
- Heterodera sp. poss. humuli 2x "
- Heterodera punctata 3x "

FORMOSA:
- Anomala sp. (Insect)

FRANCE:
- Ceutorhynchus sp. "
- Ditylenchus dipsaci (Nematode)
- Heterodera sp. poss. humuli (Nematode)
- Meloidogyne hapla "

GERMANY:
- Aphelenchoides sp. "
- Criconemoides sp. "
- Helicotylenchus sp. prob. vulgaris (Nematode)
- Heterodera avenae "
- Heterodera sp. poss. humuli
- Heterodera rostochiensis "
- Hoplolaimus sp. "
- Pratylenchus sp. prob. crenicaudata "
- Pratylenchus coffeae "
- Pratylenchus penetrans "
- Rotylenchus follorobustus "
- Rotylenchus pumilus "
- Tipula sp. (Insect)
- Tylenchorhynchus dubius (Nematode)
- Tylenchorhynchus macrurus "
- Tylenchorhynchus sp. "
- Xiphinema americanum "

HAITI:
- Lyctus sp. (Insect)

HONG KONG:
- Acotyledon krameri (Mite)
- Acotyledon redikorzevi "
- Aphelenchoides sp. (Nematode)
- Hypoaspis miles (Mite)
- Myrmica sp. (Insect)
- Oecophoridae "
- Paratrechina longicornis "
- Psylla pyricola "

HUNGARY:
- Aphelenchoides sp. (Nematode)
- Heterodera avenae "
- Heterodera sp. poss. humuli (Nematode)
- Limonius sp. prob. pilosus (Insect)
- Nephrotoma sp. "
- Pratylenchus crenatus (Nematode)
- Rotylenchus sp. "

INDIA:
- Blatta orientalis (Insect)
- Dermestes frischii "

IRELAND (Eire):
- Heterodera rostochiensis 2x (Nematode)

ITALY:
- Bruchus brachialis (Insect)
- Bruchus rufimanus "
- Heterodera avenae 3x (Nematode)
- Heterodera cacti or near 2x "
- Heterodera sp. prob. cruciferae (Nematode)
- Heterodera sp. prob. humuli 9x "
- Heterodera rostochiensis "
- Heterodera sp. poss. tabacum "
- Limax marginatus (Insect)

Countries of Origin and Pests Intercepted

JAPAN:
- Aonidiella citrina (Insect)
- Lepidosaphes beckii "
- Lyctus sp. 2x "
- Pratylenchus crenatus (Nematode)

MEXICO:
- Carpophilus luridus (Insect)
- Carpophilus sp. prob. mutilatus (Insect)
- Cathartus quadricollis "
- Conotelus stenoides "
- Pharaxonotha kirschi "
- Platynota sp. prob. stultana "
- Pyroderces rileyi "

NETHERLANDS:
- Aphelenchoides sp. 2x (Nematode)
- Arion ater (Insect)
- Ceruraphis eriophori (Insect)
- Cytilus sericeus 3x "
- Denticollis linearis "
- Diacrisia sp. "
- Ditylenchus dipsaci (Nematode)
- Euceraphis sp. prob. punctipennis (Insect)
- Heterodera avenae 3x (Nematode)
- Heterodera punctata 2x "
- Hoplolaimus galeatus "
- Meloidogyne arenaria "
- Meloidogyne hapla 4x "
- Meloidogyne incognita 3x "
- Meloidogyne sp. 15x "
- Myrmica laevinodis (Insect)
- Myrmica ruginodis "
- Noctuidae "
- Nothotylenchus sp. (Nematode)
- Phomopsis conglanensis (Fungus)
- Phomopsis perniciosa "
- Pratylenchus crenatus (Nematode)
- Pratylenchus penetrans 5x "
- Rhyacionia buoliana (Insect)
- Triphosa dubitata "
- Xiphinema americanum (Nematode)
- Xylena vetusta (?) (Insect)

NEW ZEALAND:
- Iridomyrmex humilis (Insect)

NICARAGUA:
- Forficula auricularia "
- Periplaneta fulginosa "

PAKISTAN:
- Trogoxylon sp. "

PORTUGAL:
- Aphelenchoides sp. (Nematode)
- Bruchus rufimanus (Insect)
- Heterodera sp. prob. cruciferae (Nematode)
- Heterodera sp. prob. humuli "
- Hoplolaimus sp. "
- Systole albipennis (?) (Insect)
- Systole foeniculi (?) "

POLAND:
- Heterodera punctata (Nematode)
- Noctuidae (Insect)

SCOTLAND:
- Heterodera rostochiensis (Nematode)

SOUTH AFRICA:
- Brachyrhinus sp. (Insect)
- Heterodera sp. prob. schachtii (Nematode)
- Olethreutidae (Insect)
- Planococcus citri "

SPAIN:
- Heterodera sp. prob. humuli "

UKRAINE (USSR):
- Tylenchorhynchus brevidens "

UNITED STATES OF AMERICA (by States)

ALABAMA:
- Meloidogyne hapla 2x (Nematode)
- Meloidogyne incognita "
- Meloidogyne sp. 3x "

CALIFORNIA:
- Brachyrhinus sp. (Insect)
- Frankliniella sp. "
- Gracilaria azaleella "
- Helix aspersa 2x (Snail)
- Meloidogyne hapla (Nematode)
- Pestalotia sp. prob. aeruginea (Fungus)
- Platyptilia sp. poss. pica 6x (Insect)
- Schistocera vaga "
- Sphecodina abbotti ? "

CALIFORNIA AND/OR NORTH CAROLINA:
- Gnorimoschema operculella 2x "

DELAWARE:
- Meloidogyne hapla (Nematode)
- Meloidogyne sp. "

FLORIDA:
- Aspidiotus lataniae (Insect)
- Ceroplastes cirripediformis (Insect)
- Ceroplastes floridensis "
- Chrysomphalus ficus "
- Erwinia chrysanthemi (Bacterium)
- Meloidogyne incognita (Nematode)
- Meloidogyne sp. "
- Parlatoria proteus (Insect)
- Pseudococcus sp. 3x "
- Pestalotia versicolor (Fungus)
- Saissetia oleae (Insect)
- Stemphylium floridanum prob. from Fla. (Fungus)
- Supella supellectilium (Insect)
- Xanthomonas sp. prob. dieffenbachiae (Bacterium)

GEORGIA:
- Meloidogyne hapla (Nematode)
- Meloidogyne incognita 14x (Nematode)
- Meloidogyne javanica 19x "
- Meloidogyne sp. 5x "

Countries of Origin and Pests Intercepted

HAWAII:
- Carpophilus hemipterus (Insect)
- Carpophilus humeralis "
- Pheidole sp. 2x "
- Taeniothrips sp. "

ILLINOIS:
- Helicotylenchus pseudorobustus (Nematode)
- Hoplolaimus galeatus "
- Paratylenchus sp. "
- Xiphinema americanum 3x "

IOWA:
- Meloidogyne sp. (Nematode)

MICHIGAN:
- Meloidogyne sp. "
- Xanthomonas pelargonii (Bacterium)

MINNESOTA:
- Pratylenchus neglectus (Nematode)
- Pratylenchus penetrans "

MISSISSIPPI:
- Thyridopteryx ephemeraeformis (Insect)

MISSOURI:
- Meloidogyne hapla (Nematode)
- Meloidogyne sp. "

NEW JERSEY:
- Aphelenchoides sp. "
- Criconemoides sp. "
- Heterodera avenae "
- Hoplolaimus galeatus 5x "
- Paratylenchus projectus 2x "
- Pratylenchus crenatus 2x "
- Pratylenchus penetrans 2x "
- Tylenchorhynchus sp. "
- Xiphinema americanum 3x "
- Xiphinema sp. 2x "

NEW YORK:
- Cadra figulilella (Insect)
- Cytospora ambiens (Fungus)
- Erwinia chrysanthemi or near (Bacterium)
- Gracilaria azaleella (Insect)
- Megastigmus spermotrophus (Insect)
- Meloidogyne hapla 2x (Nematode)
- Meloidogyne sp. "
- Veronicella sp. (Slug)

OREGON:
- Arion hortensis "
- Cumminsiella mirabilissima 2x (Fungus)
- Gracilaria azaleella 4x (Insect)
- Lily mosaic virus
- Meloidogyne hapla (Nematode)
- Puccinia menthae (Fungus)
- Vermicularia liliacearum (Fungus)

PENNSYLVANIA:
- Scolytus multistriatus (Insect)

TENNESSEE:
- Heterodera cacti or near (Nematode)
- Meloidogyne arenaria 3x "
- Meloidogyne hapla 3x "
- Meloidogyne incognita 6x "
- Meloidogyne incognita acrita ? "
- Meloidogyne sp. 8x "
- Thyridopteryx ephemeraeformis 15x (Insect)

TEXAS:
- Belonolaimus sp. (Nematode)
- Carpophilus marginellus (Insect)
- Meloidogyne hapla 4x (Nematode)
- Meloidogyne sp. 3x "
- Xiphinema sp. "

VIRGINIA:
- Monarthropalpus buxi (Insect)
- Meloidogyne hapla 2x (Nematode)
- Meloidogyne sp. "
- Pratylenchus sp. prob. brachyurus (Nematode)

WAHSINGTON:
- Ditylenchus dipsaci (Nematode)
- Epinotia subviridis (Insect)
- Gracilaria azaleella "
- Meloidogyne incognita (Nematode)
- Meloidogyne sp. "
- Pratylenchus penetrans "
- Xanthomonas pelargonii (Bacterium)

USA (State ?):
- Acedes pallescentella 3x (Insect)
- Gnorimoschema operculella 3x "

WEST INDIES:
- Lathridius protensicollis "

ORIGIN (?):
- Acedes fuscipunctella "
- Acedes pallescentella 2x "
- Carpophilus hemipterus 2x "
- Carpophilus humeralis "
- Carpophilus obsoletus "
- Cryptolestes pusillus 2x "
- Cryptolestes turcicus 2x "
- Dermestes frischii "
- Dinoderus japonicus "
- Litargus sp. "
- Micrograme arga "
- Micrograme sp. "
- Trogoderma granarium 3x "